5

20

30



What is claimed is:

- An electrochemical biosensor comprising:
 an electrode support substrate,
 electrodes positioned on the electrode support substrate,
- a sensor support substrate coupled to the electrode support substrate, and electrically conductive tracks positioned on the sensor support substrate, each track being in electrical communication with one of the electrodes.
- 2. The biosensor of claim 1 wherein the sensor support substrate is formed to include notches and each notch is aligned with a portion of one electrode.
- 10 3. The biosensor of claim 2 wherein the electrodes cooperate to define an electrode array and leads extending from the array and each notch is aligned with at least a portion of one lead.
 - 4. The biosensor of claim 1 wherein the electrodes cooperate to define spaced-apart electrode arrays.
- 15 5. The biosensor of claim 1 wherein the sensor support substrate is formed to include an opening in alignment with one of the electrode arrays.
 - 6. The biosensor of claim 1 wherein the tracks are formed to include layers.
 - 7. The biosensor of claim 6 wherein one layer is silver ink.
 - 8. The biosensor of claim 6 wherein one layer is carbon ink.
 - 9. The biosensor of claim 6 wherein the electrodes are gold.
 - 10. The biosensor of claim 1 wherein the sensor support substrate is formed to include an opening in alignment with at least a portion of the electrodes.
- 11. The biosensor of claim 10 further comprising a cover substrate coupled to the sensor support substrate.
 - 12. The biosensor of claim 11 wherein the cover substrate, sensor support substrate, and electrode support substrate cooperate with one another to define a channel and at least a portion of the electrodes are positioned in the channel.
 - 13. The biosensor of claim 1 wherein the electrode support substrate and the sensor support substrate cooperate to define a channel and at least a portion of the electrodes are positioned in the channel.
 - 14. The biosensor of claim 13 wherein the sensor support substrate is formed to include an opening in alignment with the channel.
 - 15. A biosensor comprising:

5



a metallized electrode support substrate being formed to define an electrode array and leads extending from the array,

a sensor support substrate coupled to the electrode support substrate, the sensor support substrate being formed to include notches and an opening, at least a portion of each notch being aligned with one lead and the opening being spaced-apart from the leads, and

electrically conductive tracks positioned on the sensor support substrate, each track extending across one of the notches and into engagement with one lead.

- 16. The biosensor of claim 15 wherein the tracks are formed to include 10 layers.
 - 17. The biosensor of claim 16 wherein one layer is silver ink.
 - 18. The biosensor of claim 16 wherein one layer is carbon ink.
 - 19. The biosensor of claim 16 wherein the electrode array and leads are gold.
- 15 20. The biosensor of claim 16 further comprising a cover substrate coupled to the sensor support substrate and extending across the electrode array.
 - 21. A method of forming a biosensor, the method comprising the steps of: providing a metallized electrode support substrate and a sensor support, ablating the electrode support substrate to form electrodes,

coupling the sensor support substrate to the electrode support substrate, and positioning spaced-apart electrically conductive tracks across the sensor support substrate so that each track is in electrical communication with one electrode.

- 22. The method of claim 21 further comprising the step of punching notches in the sensor support substrate and the coupling step includes aligning the notches with respective electrodes.
- 23. The method of claim 21 further comprising the step of applying a reagent to a portion of the electrodes.
- 24. The method of claim 21 further comprising the step of punching an opening in the substrate spaced-apart from the notches.

30

20

25